

Fig 1A

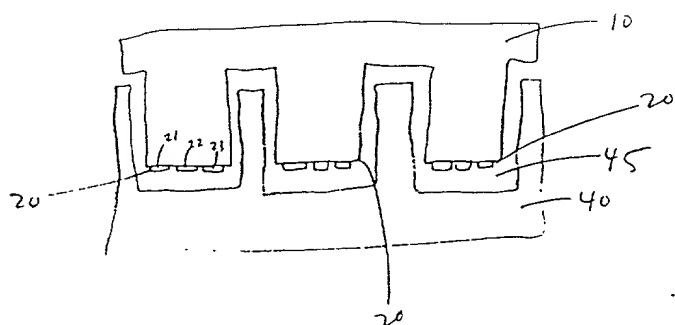


Fig 1B

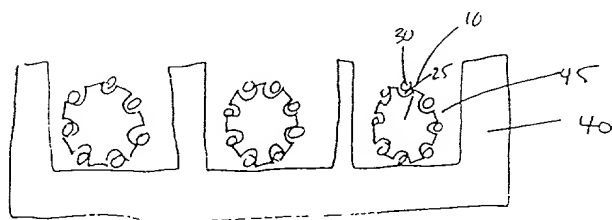


Fig 1C

Fig 1

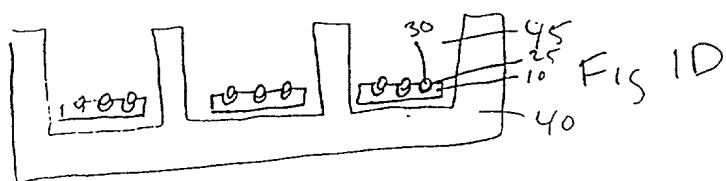


Fig 1D

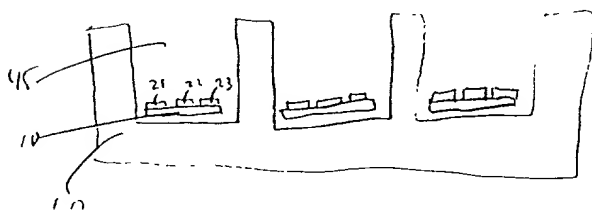


Fig 1E

| Parameter | Value | Unit |
|---------------|-------|-----------------|
| Temperature | 25 | °C |
| Pressure | 1.0 | atm |
| Concentration | 0.1 | M |
| Time | 10 | min |
| Distance | 10 | cm |
| Volume | 10 | ml |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| Volume | 10 | cm ³ |
| Mass | 10 | g |
| Energy | 10 | J |
| Power | 10 | W |
| Frequency | 10 | Hz |
| Wavelength | 10 | nm |
| Angle | 10 | ° |
| Area | 10 | cm ² |
| | | |

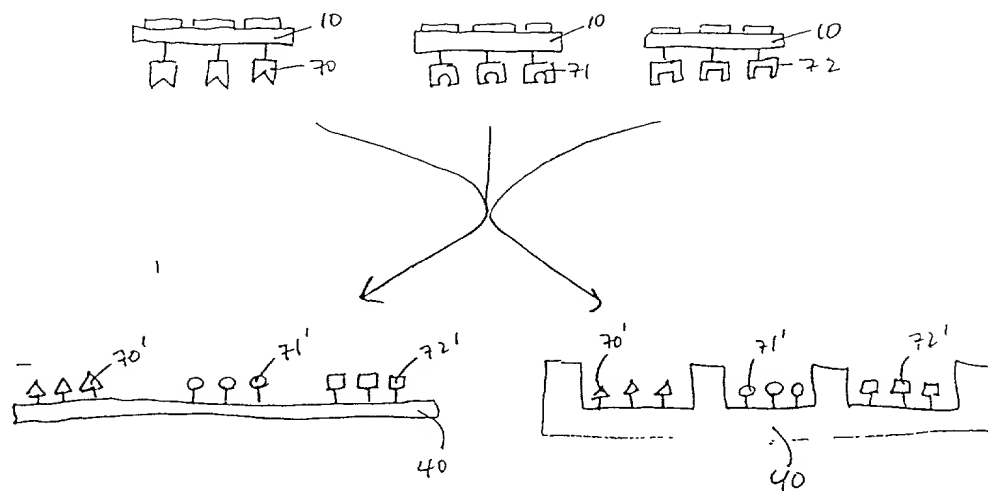


Fig 1F

Fig 1,
cont

109780 T 201504

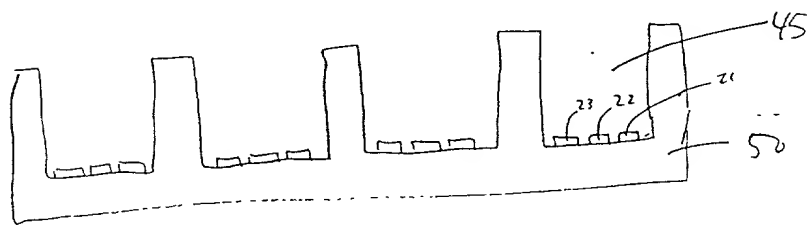
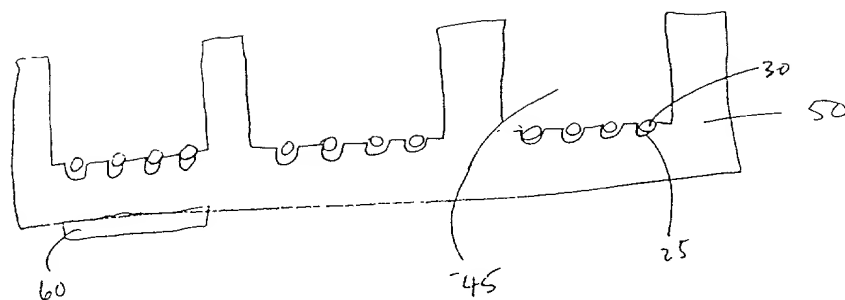


FIG 2

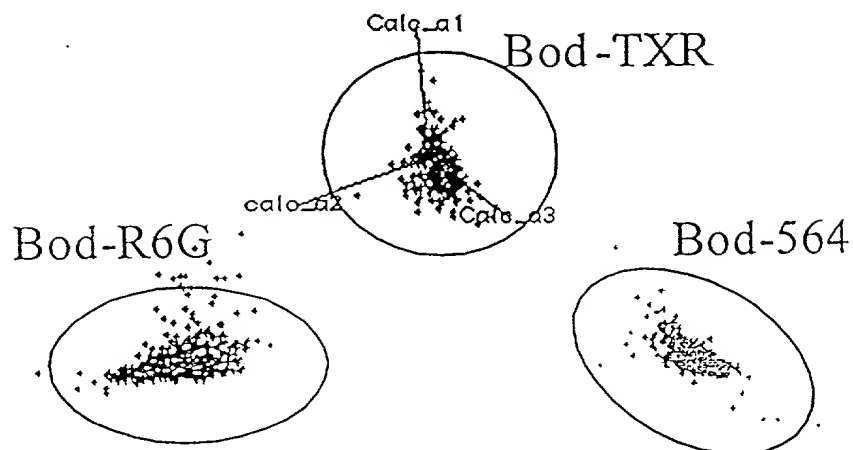
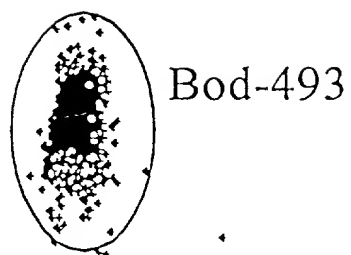
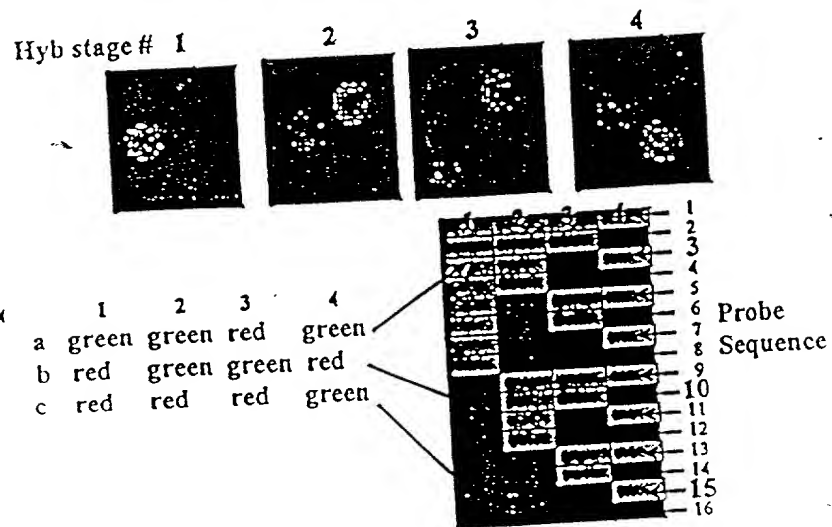


Figure 6

Fig 3

009421-0860

Decoding 16 Probes



F24 4

Figure 1

00031374-081501

128 bead types
(4013 beads
total)

Four dyes -
(Bod493,
BodR6G,
Bod564,
BodTXR)

Four Stages

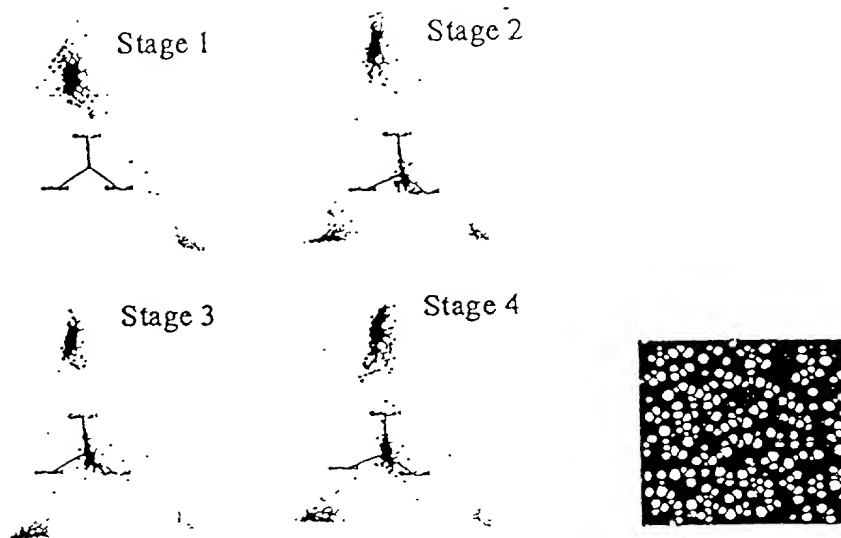


Figure 2

Fig 5

GreyScale Decoding

A.

| Code | S1 | S2 | S3 |
|------|-----|-----|-----|
| 1 | 100 | 100 | 100 |
| 2 | 100 | 100 | 40 |
| 3 | 100 | 100 | 10 |
| 4 | 100 | 40 | 100 |
| 5 | 100 | 40 | 40 |
| 6 | 100 | 40 | 10 |
| 7 | 100 | 10 | 100 |
| 8 | 100 | 10 | 40 |
| 9 | 100 | 10 | 10 |
| 10 | 40 | 100 | 100 |
| 11 | 40 | 100 | 40 |
| 12 | 40 | 100 | 10 |
| 13 | 40 | 40 | 100 |
| 14 | 40 | 40 | 40 |
| 15 | 40 | 40 | 10 |
| 16 | 40 | 10 | 100 |
| 17 | 40 | 10 | 40 |
| 18 | 40 | 10 | 10 |
| 19 | 10 | 100 | 100 |
| 20 | 10 | 100 | 40 |
| 21 | 10 | 100 | 10 |
| 22 | 10 | 40 | 100 |
| 23 | 10 | 40 | 40 |
| 24 | 10 | 40 | 10 |
| 25 | 10 | 10 | 100 |
| 26 | 10 | 10 | 40 |
| 27 | 10 | 10 | 10 |

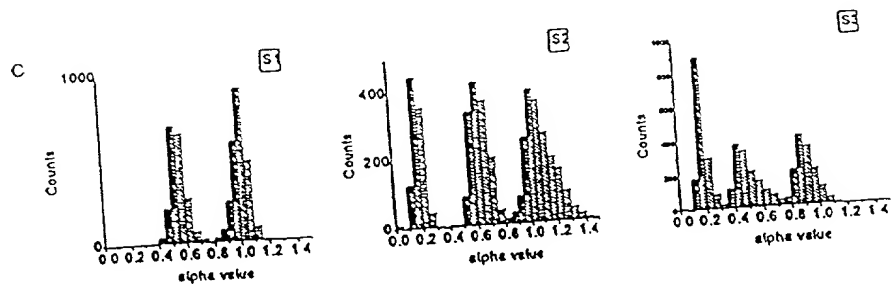
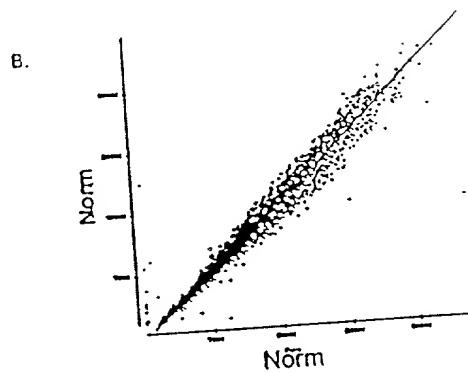
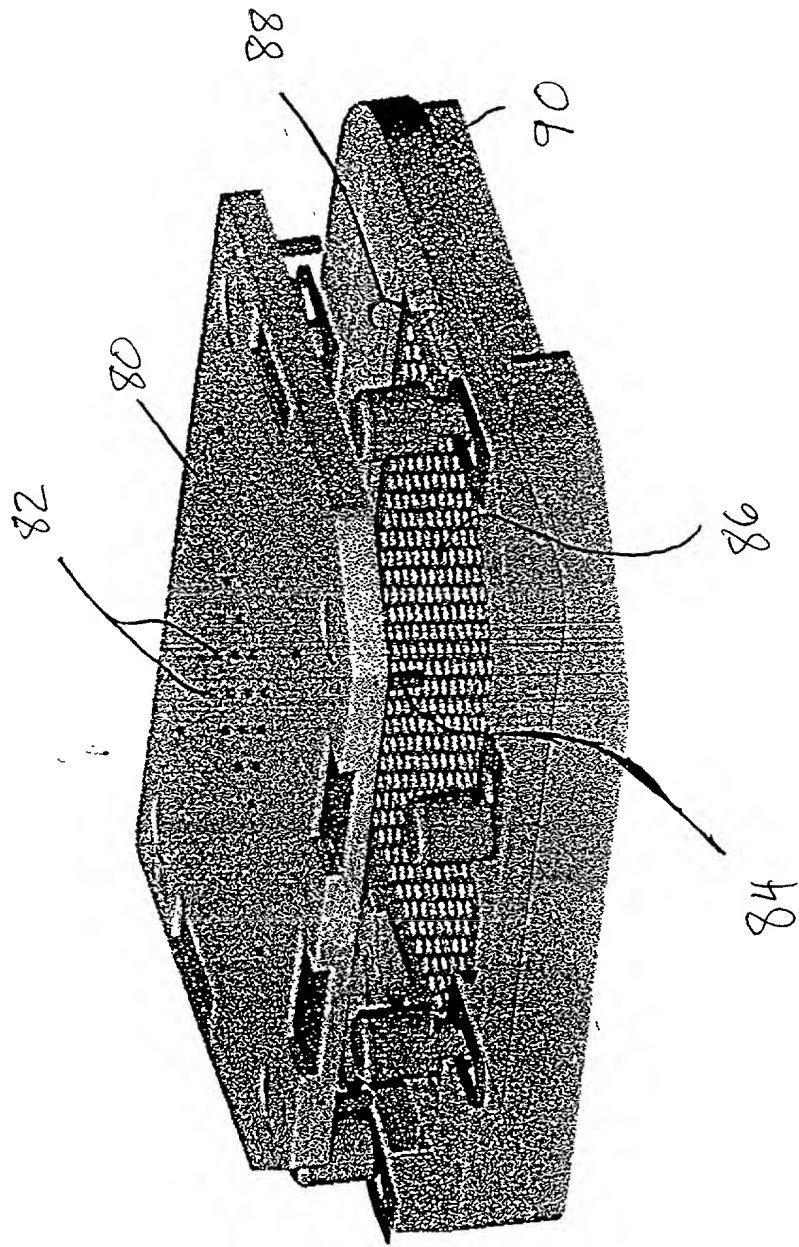


Figure 3 *Fig 6*

Figure 7A



09931271.081601

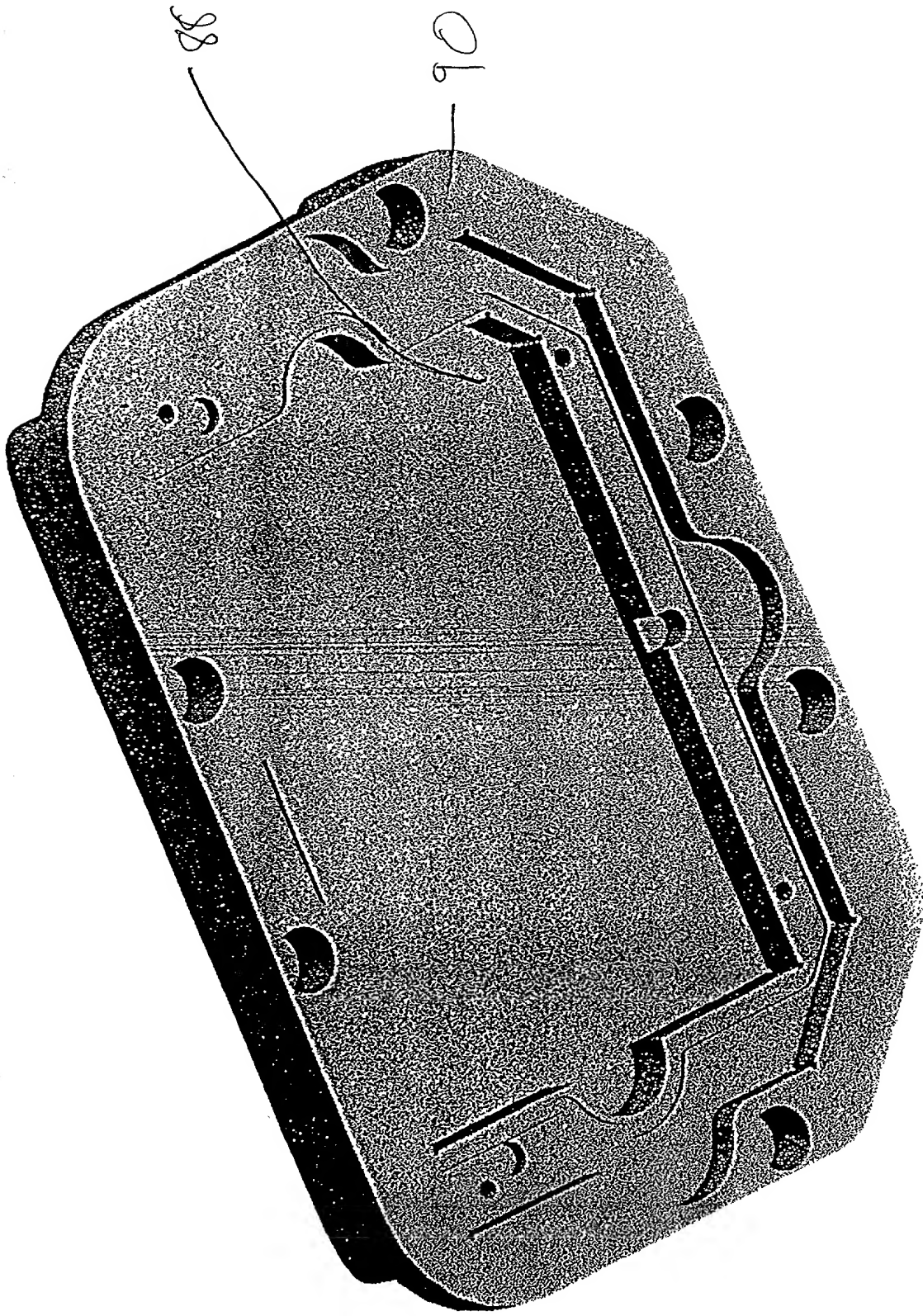
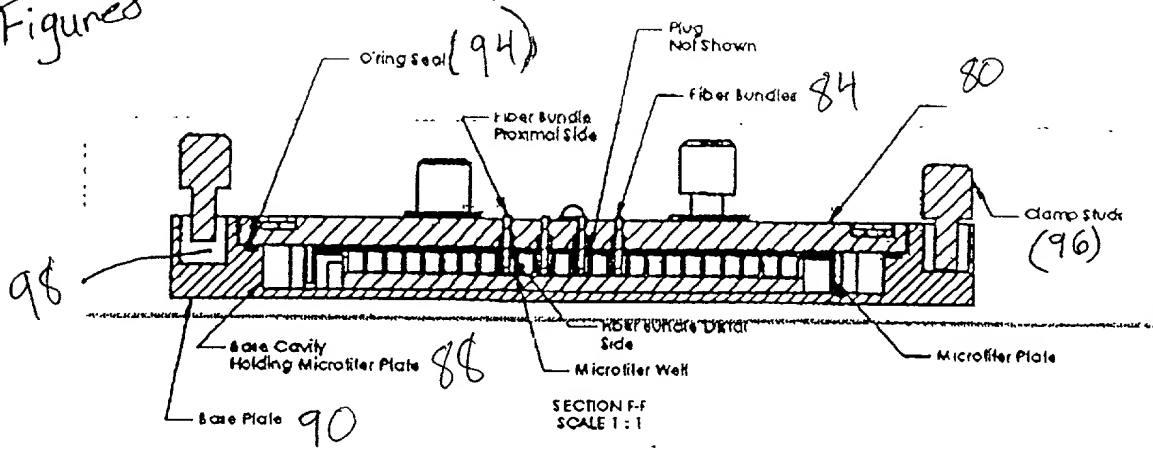


Figure 7B

Figures



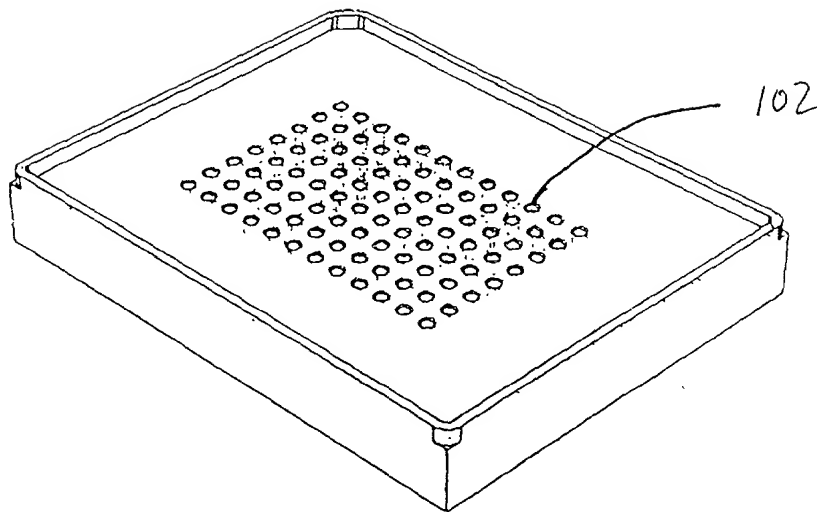


Figure 9A

Fig. 1 Base Block Concept, Isometric View

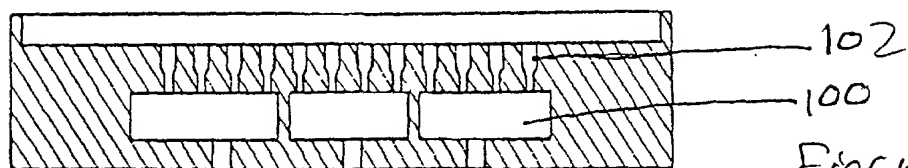
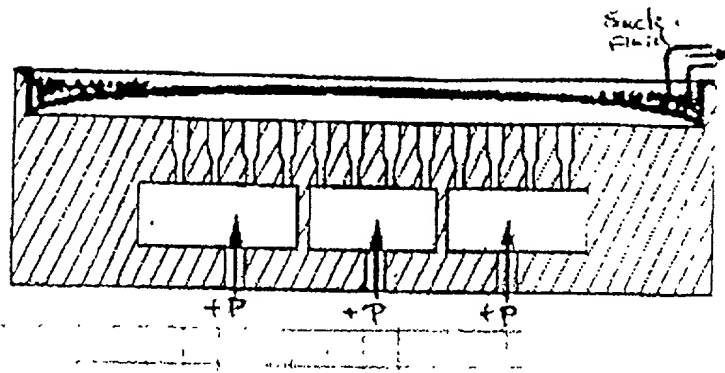


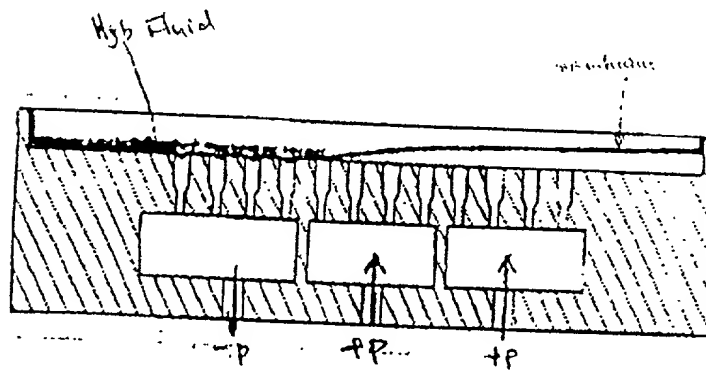
Figure 9B

Fig. 2 Base Block Concept, Cross Section Side View

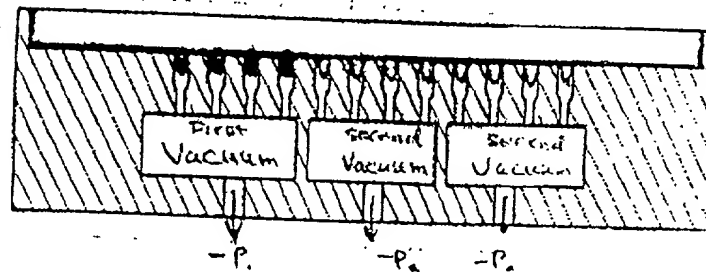
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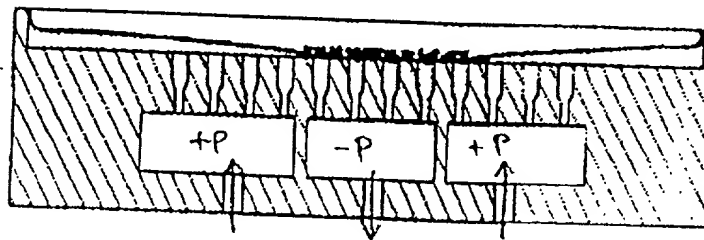
A



B



C

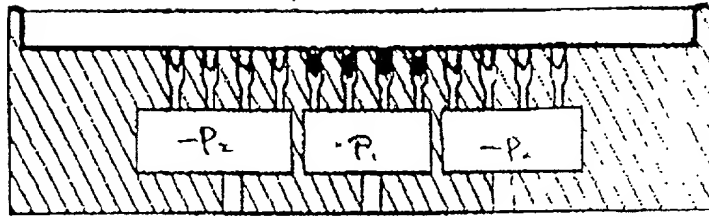


D

Figure 10

0953424.031601

E



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F

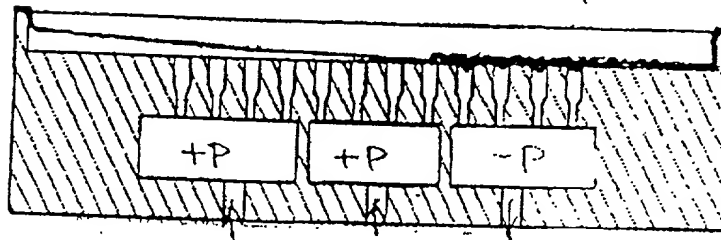


Figure 10 (contd)

09931271.081601

ANALYTICAL HYBRIDIZATION

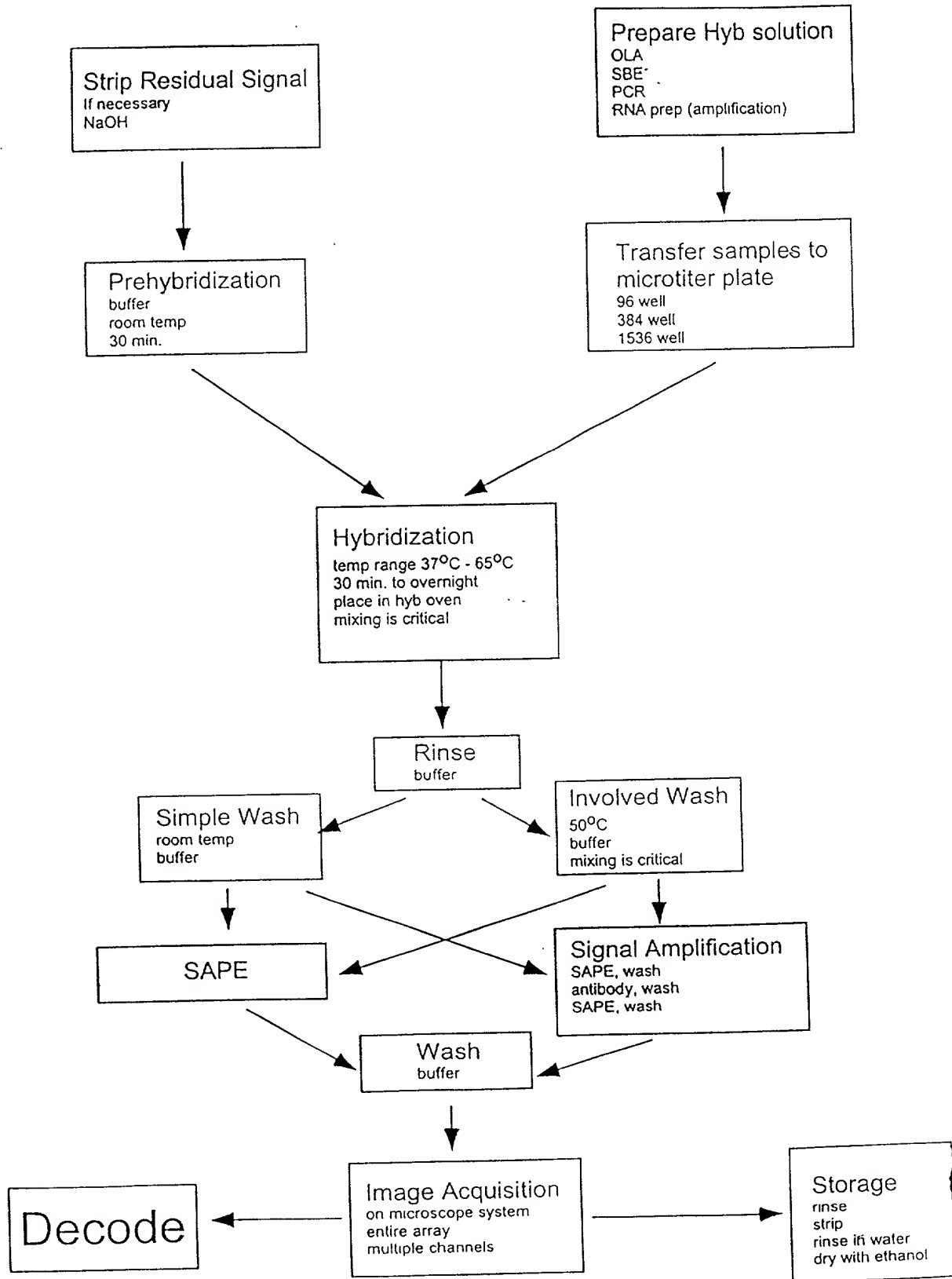


Figure 11

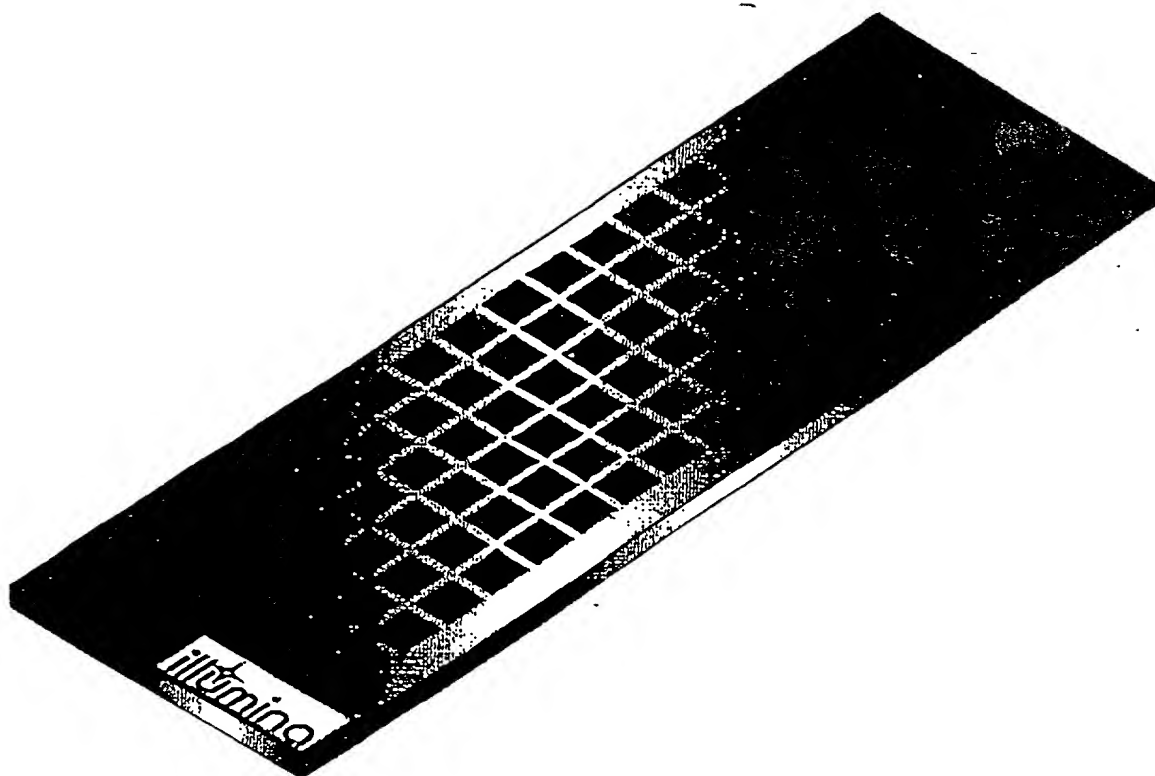


Figure 12

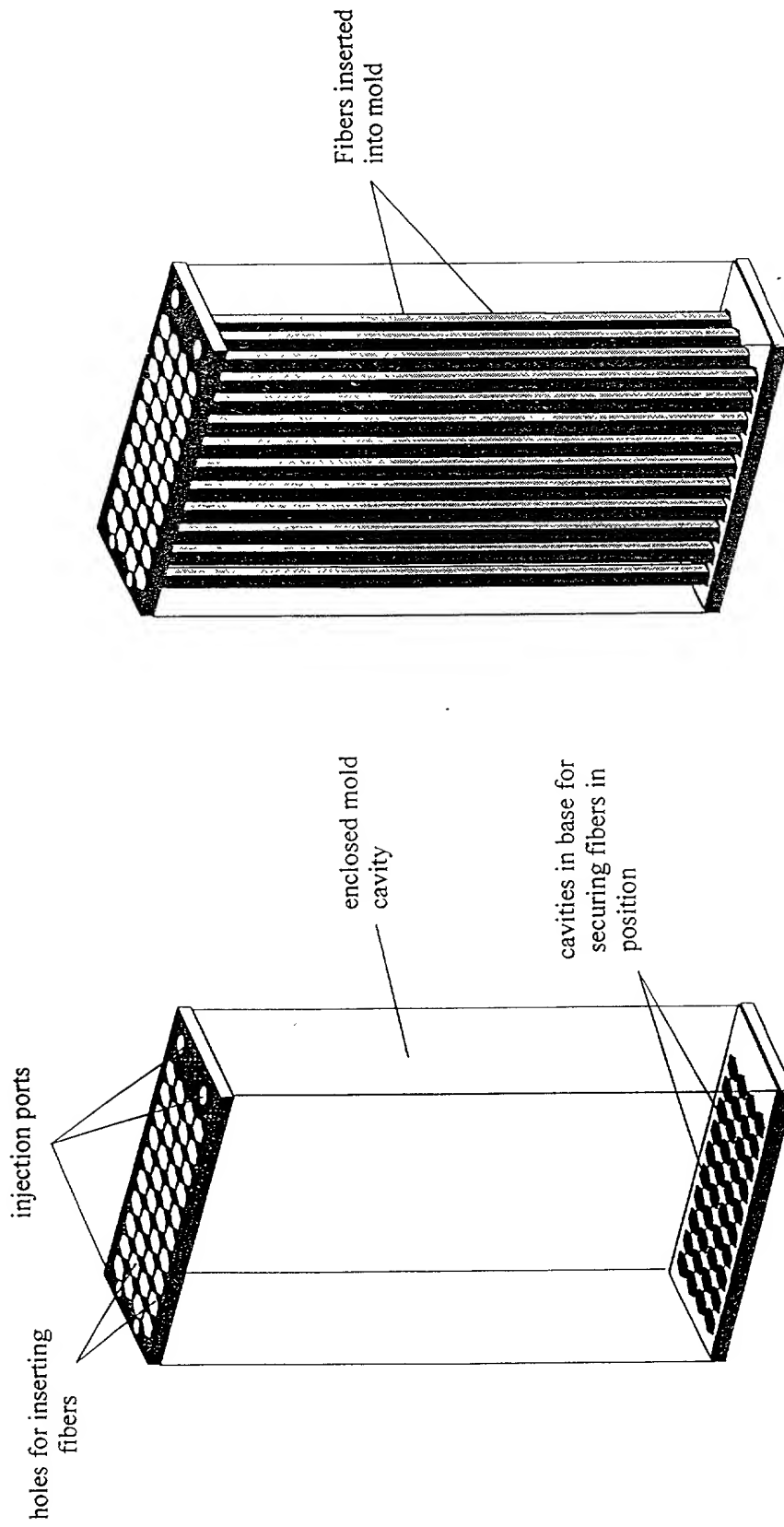
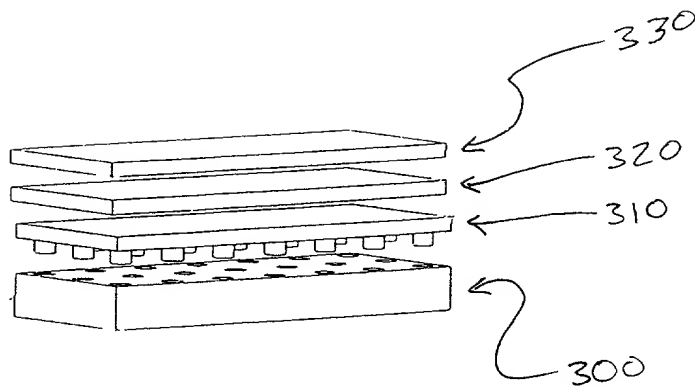
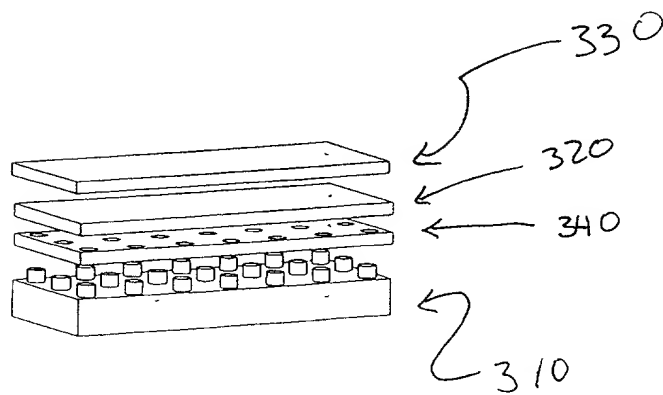


Figure 13

Replication Steps

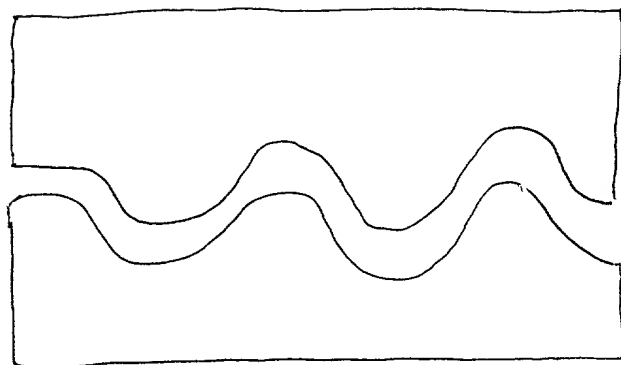


A

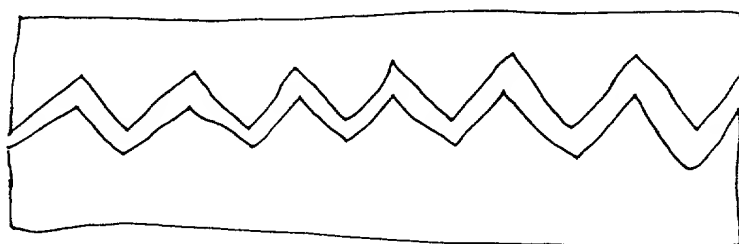


B

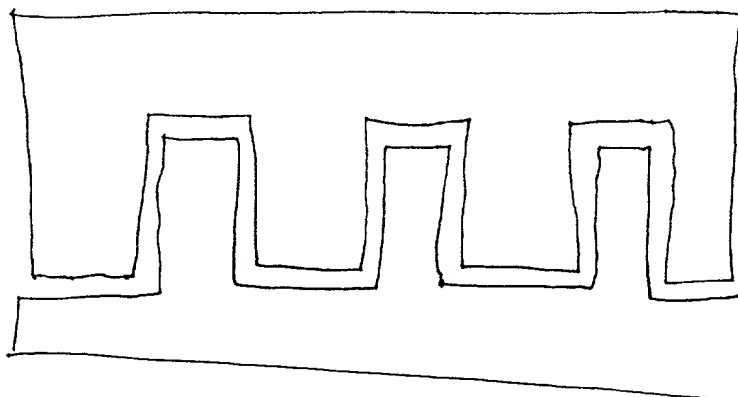
Figure 14



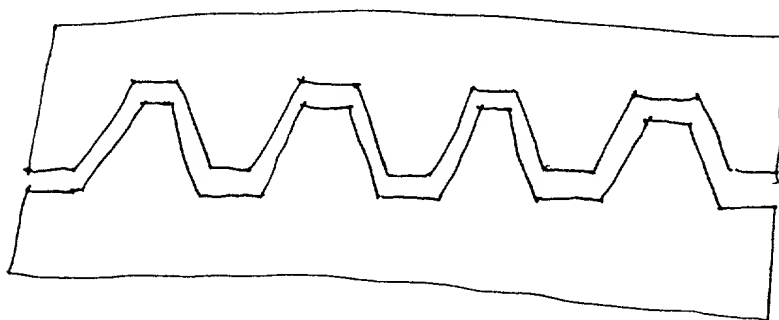
A



B

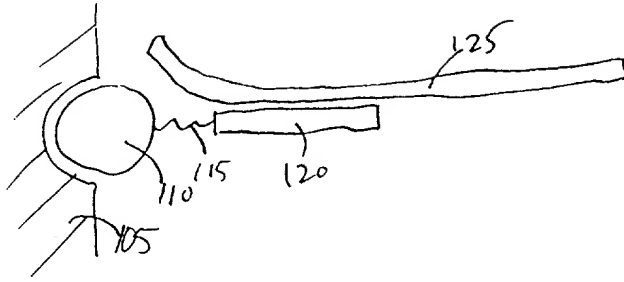


C

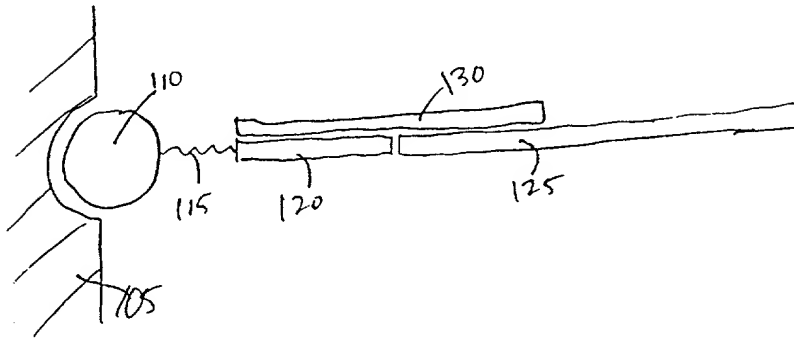


D

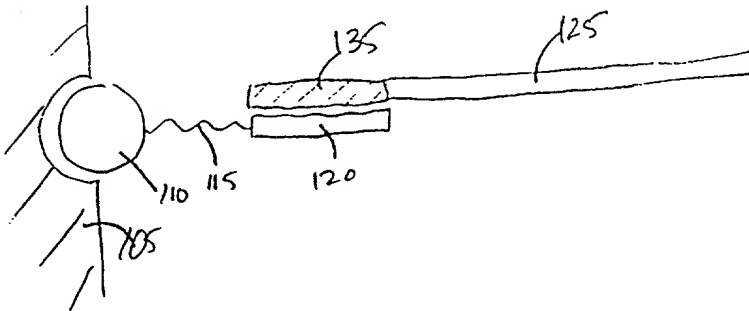
Figure 15



A



B



C

Fig 16